

CLAIMS

1. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

using data (n) generated on the basis of a random number obtained using said trigger signal as a start point, the (n)-th random number from this random number is set as the data for generation of probability.

2. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

the data for generation of probability is obtained by using data (n) and data (k) each generated on the basis of a random number obtained using said trigger signal as a start

point to rotate the (n)-th random number from this random number using a rotating direction and a rotation length set on the basis of the data (k).

5 3. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis
10 of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

the data for generation of probability is obtained by
15 using data (n) and data (j) each generated on the basis of a random number obtained using said trigger signal as a start point, to scramble the (n)-th and (j)-th random numbers from said random number.

20 4. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis
25 of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

the data for generation of probability is obtained by using data (n0) and data (j0) each generated on the basis of a random number obtained using said trigger signal as a start point, to generate data (n1, j1) and data (n2, j2) on the basis
5 of the (n0)-th and (j0)-th random numbers from said random number, and using the data (n1, j1) and the data (n2, j2) as well as a rotating direction and a rotation length set on the basis of the data (n2, j2) to rotate the (n0+n1)-th and (j0+j1)-th random numbers from the random number obtained
10 using the trigger signal as the start point, and scrambling the rotated (n0+n1)-th and (j0+j1)-th random numbers.

5. A probability generating apparatus comprising a parallel random number generator offering uniformity and
15 consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss
20 probability signal, the apparatus being characterized in that:

using data (n) and data (j) each generated on the basis of a random number obtained using said trigger signal as a start point, the (j)-th random number from this random number
25 is set as the data for generation of probability, and said range data is obtained by comparing predetermined selection comparison data with the (n)-th data from said random number, selecting one of two sets of probability upper limit data and

probability lower limit data in accordance with results of the comparison, and setting a range specified by the selected probability upper limit data and probability lower limit data, as the range data.

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6. The probability generating apparatus according to claim 1, characterized in that said data for generation of probability is obtained by inverting or non-inverting the above data for generation of probability in accordance with contents of the random number obtained using said trigger signal as the start point.

7. The probability generating apparatus according to claim 1, characterized in that random number data is obtained by using data (x) generated on the basis of the random number obtained using the trigger signal as the start point, to set the (x)-th random number from this random number as the random number data, and the random number data is outputted together with said probability signal.

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8. The probability generating apparatus according to claim 1, characterized in that random number data is obtained by using data (x) and data (y) each generated on the basis of the random number obtained using the trigger signal as the start point, to set, as the random number data, data obtained by using a rotating direction and a rotation length set on the basis of the data (y) to rotate the (x)-th random number

from said random number, and the random number data is outputted together with said probability signal.

9. The probability generating apparatus according to claim
5 1, characterized in that random number data is obtained by using data (x) and data (y) each generated on the basis of the random number obtained using said trigger signal as the start point, to set, as the random number data, data obtained by scrambling the (x)-th and (y)-th random numbers from said
10 random number, and the random number data is outputted together with said probability signal.

10. The probability generating apparatus according to claim
1, characterized in that the random number data is obtained
15 by using data (x0) and data (y0) each generated on the basis of the random number obtained using said trigger signal as the start point, to generate data (x1, y1) and data (x2, y2) on the basis of the (x0)-th and (y0)-th random numbers from said random number, using the data (x1, y1) and the data (x2, y2) as well as a rotating direction and a rotation length set
20 on the basis of the data (x2, y2) to rotate the (x0+x1)-th and (y0+y1)-th random numbers from the random number obtained using said trigger signal as the start point, and then scrambling the rotated (x0+x1)-th and (y0+y1)-th random
25 numbers, and the random number data is outputted together with said probability signal.

11. The probability generating apparatus according to claim 1, characterized in that a timing for generating the trigger signal is obtained by adding a preset variable offset value to a timing for generating said trigger signal.

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12. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a start point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

15 said range data is specified by probability lower limit data having a probability lower limit value that can be varied within a probability setting range and probability upper limit data obtained by adding a predetermined probability width to the probability lower limit value.

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13. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a start point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss

probability signal, the apparatus being characterized in that:

said range data is specified by probability upper limit data having a probability upper limit value that can be varied
5 within a probability setting range and probability lower limit data obtained by subtracting a predetermined probability width from the probability upper limit value.

14. A probability generating apparatus comprising a
10 parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a start point on the basis of the random numbers, the apparatus comparing the data for
15 generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability lower limit data obtained by subtracting a predetermined probability
20 width from a value for a probability generation position that can be varied within a probability setting range and probability upper limit data obtained by adding said probability width to said value for the probability generation position.

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15. The probability generating apparatus according to claim 12, characterized in that said probability lower limit value

is the random number obtained using said trigger signal as the start point.

16. The probability generating apparatus according to claim 5 13, characterized in that said probability upper limit value is the random number obtained using said trigger signal as the start point.

17. The probability generating apparatus according to claim 10 14, characterized in that said value for the probability generation position is the random number obtained using said trigger signal as the start point.

18. The probability generating apparatus according to claim 15 12, characterized in that using the data (n) generated on the basis of the random number obtained using said trigger signal as the start point, the (n)-th random number from this random number is set as said probability lower limit value.

20 19. The probability generating apparatus according to claim 13, characterized in that using the data (n) generated on the basis of the random number obtained using said trigger signal as the start point, the (n)-th random number from this random number is set as said probability upper limit value.

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20. The probability generating apparatus according to claim 14, characterized in that using the data (n) generated on the basis of the random number obtained using said trigger signal

as the start point, the (n)-th random number from this random number is set as the value for the probability generation position.

5 21. The probability generating apparatus according to claim 12, characterized in that said probability lower limit value is obtained by using the data (n) and data (k) each generated on the basis of the random number obtained using said trigger signal as the start point, to rotate the (n)-th random number
10 from this random number using a rotating direction and a rotation length set on the basis of the data (k).

22. The probability generating apparatus according to claim 13, characterized in that said probability upper limit value
15 is obtained by using the data (n) and data (k) each generated on the basis of the random number obtained using said trigger signal as the start point, to rotate the (n)-th random number from this random number set using a rotating direction and a rotation length set on the data (k).

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23. The probability generating apparatus according to claim 14, characterized in that said value for the probability generation position is obtained by using the data (n) and data (k) each generated on the basis of the random number obtained
25 using said trigger signal as the start point, to rotate the (n)-th random number from this random number using a rotating direction and a rotation length set on the data (k).

24. The probability generating apparatus according to claim 12, characterized in that said probability lower limit value is obtained by using the data (n) and data (j) each generated on the basis of the random number obtained using said trigger
5 signal as the start point, to scramble the (n)-th and (j)-th random numbers from this random number.

25. The probability generating apparatus according to claim 13, characterized in that said probability upper limit value
10 is obtained by using the data (n) and data (j) each generated on the basis of the random number obtained using the trigger signal as the start point, to scramble the (n)-th and (j)-th random numbers from this random number.

15 26. The probability generating apparatus according to claim 14, characterized in that said value for the probability generation position is obtained by using the data (n) and data (j) each generated on the basis of the random number obtained using said trigger signal as the start point, to scramble the
20 (n)-th and (j)-th random numbers from this random number.

27. The probability generating apparatus according to claim 12, characterized in that said probability lower limit value is obtained by using the data (n0) and data (j0) each generated
25 on the basis of the random number obtained using said trigger signal as the start point, to generate the data (n1, j1) and data (n2, j2) on the basis of the (n0)-th and (j0)-th random numbers from this random number, using the data (n1, j1) and

the data (n2, j2) as well as the rotating direction and rotation length set on the basis of the data (n2, j2) to rotate the (n0+n1)-th and (j0+j1)-th random numbers from the random number obtained using the trigger signal as the start point,
5 and then scrambling the rotated (n0+n1)-th and (j0+j1)-th random numbers.

28. The probability generating apparatus according to claim 13, characterized in that said probability upper limit value
10 is obtained by using the data (n0) and data (j0) each generated on the basis of the random number obtained using said trigger signal as the start point, to generate the data (n1, j1) and data (n2, j2) on the basis of the (n0)-th and (j0)-th random numbers from this random number, using the data (n1, j1) and
15 the data (n2, j2) as well as the rotating direction and rotation length set on the basis of the data (n2, j2) to rotate the (n0+n1)-th and (j0+j1)-th random numbers from the random number obtained using the trigger signal as the start point, and then scrambling the rotated (n0+n1)-th and (j0+j1)-th
20 random numbers.

29. The probability generating apparatus according to claim 14, characterized in that said value for the probability generation position is obtained by using the data (n0) and
25 data (j0) each generated on the basis of the random number obtained using said trigger signal as the start point, to generate the data (n1, j1) and data (n2, j2) on the basis of the (n0)-th and (j0)-th random numbers from the random number

obtained using the trigger signal as the start point, using the data (n1, j1) and the data (n2, j2) as well as the rotating direction and rotation length set on the basis of the data (n2, j2) to rotate the (n0+n1)-th and (j0+j1)-th random numbers
5 from the random number obtained using the trigger signal as the start point, and then scrambling the rotated (n0+n1)-th and (j0+j1)-th random numbers.

30. The probability generating apparatus according to
10 claim 12, characterized in that said probability lower limit value, said probability upper limit value, and said value for the probability generation position are inverted or non-inverted in accordance with the contents of the random number obtained using said trigger signal as the start point.

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31. The probability generating apparatus according to claim 12, characterized in that if said probability width is moved and as a result, lies out of the probability setting range, a part of the probability width which lies out of the
20 probability setting range is moved to an opposite side of the probability setting range.

32. The probability generating apparatus according to claim 12, characterized in that said data for generation of
25 probability is the data for generation of probability generated by the probability generating apparatus comprising a parallel random generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for

generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the
5 apparatus being characterized in that:

using data (n) generated on the basis of a random number obtained using said trigger signal as a start point, the (n) -th random number from this random number is set as the data for generation of probability.

10

33. The probability generating apparatus according to claim 1, characterized in that said parallel random number generator comprises a 1-bit serial random number generator offering uniformity and consecutively generating random numbers and
15 a register circuit which retains every predetermined bit length of serial random numbers generated and which outputs the serial random numbers in parallel.

34. A probability generating apparatus comprising a parallel
20 random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability
25 with range data to output a win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability lower limit data obtained by setting, as a value for a probability

generation position, a random number obtained using the trigger signal as the start point and subtracting a product of a predetermined probability width and a probability increase factor, from the value for the probability generation position, and probability upper limit data obtained by adding the product of said probability width and said probability increase factor, to said value for the probability generation position, and in that said probability increase factor increases from its initial value consistently with the number of consecutive losses in said probability signal and returns to the initial value when prize winning occurs.

35. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability lower limit data containing, as a probability lower limit value, a random number obtained using the trigger signal as the start point and probability upper limit data obtained by adding a product of a predetermined probability width and a probability increase factor, to the probability lower limit value, and in that said probability increase factor increases from its initial value consistently with the number of consecutive losses in said

probability signal and returns to the initial value when prizewinning occurs.

36. A probability generating apparatus comprising a parallel
5 random number generator offering uniformity and consecutively
generating random numbers, the apparatus setting, as data for
generation of probability, data generated using a trigger
signal as a base point on the basis of the random numbers,
the apparatus comparing the data for generation of probability
10 with range data to output a win/loss probability signal, the
apparatus being characterized in that:

said range data is specified by probability upper limit
data containing, as a probability upper limit value, a random
number obtained using the trigger signal as the start point
15 and probability lower limit data obtained by subtracting a
product of a predetermined probability width and a probability
increase factor, from the probability upper limit value, and
in that said probability increase factor increases from its
initial value consistently with the number of consecutive
20 losses in said probability signal and returns to the initial
value when prizewinning occurs.

37. The probability generating apparatus according to claim
34, characterized by further comprising a probability increase
25 factor generating circuit that outputs said probability
increase factor on the basis of said trigger signal and said
probability signal, the probability increase factor

increasing in accordance with a predetermined pattern consistently with the number of consecutive losses.

38. The probability generating apparatus according to claim
5 37, characterized in that said probability increase factor generating circuit has a function of selecting and outputting one of a plurality of preset probability increase factor patterns in accordance with the contents of the random number obtained using said trigger signal as the base point.

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39. The probability generating apparatus according to claim 37, characterized in that said probability increase factor increases linear-functionally at a uniform increase rate from beginning until prizewinning occurs.

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40. The probability generating apparatus according to claim 37, characterized in that said probability increase factor increases step by step at a fixed increase rate at fixed intervals from beginning until prizewinning occurs.

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41. The probability generating apparatus according to claim 37, characterized in that said probability increase factor is set at its initial value from beginning until a specified number of losses and subsequently increases
25 linear-functionally at a uniform increase rate until prizewinning occurs.

42. The probability generating apparatus according to claim 37, characterized in that said probability increase factor is set at its initial value from beginning until a specified number of losses and is subsequently like one step and remains
5 fixed at a high probability until prizewinning occurs.

43. The probability generating apparatus according to claim 37, characterized in that said probability increase factor is set at its initial value from beginning until a specified
10 number of losses and subsequently increases step by step at a fixed increase rate at fixed intervals until prizewinning occurs.

44. The probability generating apparatus according to claim
15 34, characterized in that a probability increase amount is used in place of said probability increase factor, and data obtained by adding the probability increase amount to said probability width is used for a probability variation.

20 45. The probability generating apparatus according to claim 34, characterized in that if said trigger signal is not generated for a specified period of time, said probability increase factor or said probability increase amount is returned to its initial value.

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46. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers on the basis of a synchronous signal,

the apparatus setting, as data for generation of probability,
data generated using a trigger signal as a base point on the
basis of the random numbers, the apparatus comparing the data
for generation of probability with range data to output a
5 win/loss probability signal, the apparatus being
characterized in that:

said range data is specified by probability lower limit
data obtained by setting, as a value for a probability
generation position, a random number obtained using the trigger
10 signal as a start point and subtracting a sum of a fluctuation
width and a predetermined probability width, from the value
for the probability generation position, and probability upper
limit data obtained by adding the sum of said fluctuation width
and said predetermined probability width, to said value for
15 the probability generation position.

47. A probability generating apparatus comprising a parallel
random number generator offering uniformity and consecutively
generating random numbers on the basis of a synchronous signal,
20 the apparatus setting, as data for generation of probability,
data generated using a trigger signal as a base point on the
basis of the random numbers, the apparatus comparing the data
for generation of probability with range data to output a
win/loss probability signal, the apparatus being
25 characterized in that:

said range data is specified by probability lower limit
data containing, as a probability lower limit value, a random
number obtained using the trigger signal as a start point and

probability upper limit data obtained by adding a sum of a fluctuation width and a predetermined probability width, to the probability lower limit value.

5 48. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers on the basis of a synchronous signal, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the
10 basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability upper limit
15 data containing, as a probability upper limit value, a random number obtained using the trigger signal as a start point and probability lower limit data obtained by subtracting a sum of a fluctuation width and a predetermined probability width, from the probability upper limit value.

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49. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers on the basis of a synchronous signal, the apparatus setting, as data for generation of probability,
25 data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a

win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability lower limit data obtained by setting, as a value for a probability generation position, a random number obtained using the trigger signal as a start point and subtracting a product of a predetermined probability width and a fluctuation rate, from the value for the probability generation position, and probability upper limit data obtained by adding the product of said probability width and said fluctuation rate, to said value for the probability generation position.

50. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers on the basis of a synchronous signal, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

said range data is specified by probability lower limit data containing, as a probability lower limit value, a random number obtained using the trigger signal as a start point and probability upper limit data obtained by adding a product of a predetermined probability width and a fluctuation rate, to the probability lower limit value.

51. A probability generating apparatus comprising a parallel random number generator offering uniformity and consecutively generating random numbers on the basis of a synchronous signal, the apparatus setting, as data for generation of probability, data generated using a trigger signal as a base point on the basis of the random numbers, the apparatus comparing the data for generation of probability with range data to output a win/loss probability signal, the apparatus being characterized in that:

10 said range data is specified by probability upper limit data containing, as a probability upper limit value, a random number obtained using the trigger signal as a start point and probability lower limit data obtained by subtracting a product of a predetermined probability width and a fluctuation rate, from the probability upper limit value.

52. The probability generating apparatus according to claim 46, characterized by further comprising a fluctuation waveform generating circuit that outputs said fluctuation width or said fluctuation rate as a fluctuation waveform based on a time based on said synchronous signal.

53. The probability generating apparatus according to claim 46, characterized by further comprising a fluctuation waveform generating circuit that outputs said fluctuation width or said fluctuation rate as a fluctuation waveform based on the number of trigger signals.

54. The probability generating apparatus according to claim 46, characterized by further comprising a fluctuation waveform generating circuit that outputs said fluctuation width or said fluctuation rate as a fluctuation waveform based on a time
5 based on said synchronous signal or as a fluctuation waveform based on the number of trigger signals, depending on contents of the random number obtained using said trigger signal as the base point.

10 55. The probability generating apparatus according to claim 52, characterized in that said fluctuation waveform generating circuit has a function of multiplying a time used as a base unit of a fluctuation time axis or the number of trigger signals by a predetermined factor, depending on the contents of the
15 random number obtained using said trigger signal as the base point.

56. The probability generating apparatus according to claim 52, characterized in that said fluctuation waveform generating
20 circuit has a function of moving a phase of said fluctuation cycle a predetermined amount in accordance with the contents of the random number obtained using said trigger signal as the base point.

25 57. The probability generating apparatus according to claim 52, characterized in that said fluctuation waveform generating circuit has a function of selecting one of a plurality of preset fluctuation waveforms in accordance with the contents of the

random number obtained using said trigger signal as the base point.

58. The probability generating apparatus according to claim
5 52, characterized in that said fluctuation waveform generating circuit has a function of inverting or non-inverting said fluctuation waveform depending on the contents of the random number obtained using said trigger signal as the base point.

10 59. The probability generating apparatus according to claim 52, characterized in that said waveform generating circuit generates a fluctuation waveform under new fluctuation conditions set for each fluctuation cycle on the basis of the contents of the random number obtained using said trigger
15 signal as the base point.

60. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a sine wave
20 or a cosine wave or a waveform obtained by deforming the sine or cosine wave.

61. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated
25 by said fluctuation waveform generating circuit is a square wave or a waveform obtained by deforming the square wave.

62. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a triangular wave or a waveform obtained by deforming the triangular wave.

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63. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a saw-tooth-wave or a waveform obtained by deforming the

10 saw-tooth-wave.

64. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a

15 trapezoidal wave or a waveform obtained by deforming the trapezoidal wave.

65. The probability generating apparatus according to claim 52 is characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a normal distribution waveform or a deformed normal distribution wave.

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66. The probability generating apparatus according to claim 52 is characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a parabolic waveform or a deformed parabolic wave.

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67. The probability generating apparatus according to claim 52 is characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is a cubic root waveform or a deformed cubic root waveform.

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68. The probability generating apparatus according to claim 52, characterized in that a fluctuation waveform generated by said fluctuation waveform generating circuit is an attenuating vibration waveform, an amplifying vibration waveform, or a deformed attenuating or amplifying vibration waveform.

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69. The probability generating apparatus according to claim 52, characterized by further comprising a plurality of said fluctuation waveform generating circuits and a synthesizer that synthesizes fluctuation waveforms generated by the fluctuation waveform generating circuits, and in that a synthesized output from the synthesizer is said fluctuation width or said fluctuation rate.

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70. The probability generating apparatus according to claim 52, characterized in that said fluctuation waveform generating circuit has a ROM that stores fluctuation waveform data or a RAM that stores fluctuation waveform data.

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71. The probability generating apparatus according to claim 46, characterized in that using data generated on the basis of the random number obtained using said trigger signal as

the base point, a random number used to generate said range data is set as a random number corresponding to a timing obtained by adding an offset value based on said data to a timing for the generation of the random number obtained using said trigger
5 signal as the base point.

72. The probability generating apparatus according to Claim 46, characterized in that a random number used to generate the range data is obtained by using data generated on the basis
10 of the random number obtained using said trigger signal as the base point, to rotate, on the basis of this data, a random number corresponding to a timing obtained by adding an offset value based on said data to a timing for the generation of the random number obtained using the trigger signal as the
15 base point.

73. The probability generating apparatus according to claim 46, characterized in that a random number used to generate the range data is obtained by using data generated on the basis
20 of the random number obtained using said trigger signal as the base point as well as a plurality of data generated on the basis of this random number, to scramble a random number corresponding to a timing obtained by adding an offset value based on said data to a timing for the generation of the random
25 number obtained using the trigger signal as the base point.

74. The probability generating apparatus according to claim 46, characterized in that a random number used to generate

the range data is obtained by using data generated on the basis of the random number obtained using said trigger signal as the base point as well as a plurality of data generated on the basis of this random number, to rotate and scramble a random number corresponding to a timing obtained by adding an offset value based on the said data to a timing for the generation of the random number obtained using the trigger signal as the base point.

10 75. The probability generating apparatus according to claim 46, characterized in that the random number obtained using said trigger signal as the base point corresponds to a timing for generation of the trigger signal or a timing obtained by adding a preset fixed or variable offset value to the timing
15 for the generation of the trigger signal.